CITY COUNCIL REPORT



MEETING DATE: 10/03/2006 ITEM NO. 15 GOAL: Public Safety

SUBJECT

Review status of the City-sponsored Loop 101 Photo Enforcement Demonstration Program.

REQUEST

- 1. Review status of the Loop 101 Photo Enforcement Demonstration Program and identify next steps for Council consideration;
- 2. Authorize City staff to request an extension of the existing right of way use permit from the Arizona Department of Transportation (ADOT) through January 23, 2007, to allow for use of the program's in-pavement sensors to collect post-demonstration program speed data.

BACKGROUND

The City Council on October 25, 2005, approved Scottsdale's nine-month test program for photographic speed enforcement on the 7.8-mile Loop 101 Freeway segment within Scottsdale. This section of the freeway had seen an increase in accidents between 2002 and 2004, Scottsdale citizens had contacted the City with their concerns about freeway speeds, and both Scottsdale and the Arizona Department of Public Safety responded by periodically increasing patrols on the freeway. When the complaints persisted, the City approached the state about photo enforcement.

Scottsdale obtained a right-of-way permit from the Arizona Department of Transportation to place speed enforcement cameras at six locations – three on each side – along this portion of the Loop 101. To remind drivers to operate within the speed limit, signs were installed warning that speed enforcement cameras were in use. The City provided a 45-day public information campaign to alert motorists about the test program.

The program began on January 22, 2006. Written warnings were sent to 16,257 violators for the first month of the test program. Starting February 22, 2006, violators began receiving citations for operating at speeds of 76 mph and higher.

A Technical Evaluation Committee has been established, with membership including various City departments, ADOT and DPS representatives, and participants from the Governor's Office of Highway Safety, Federal Highway Administration, Maricopa Association of Governments, Arizona AAA, and the Insurance Institute for Highway Safety. The committee has met several times to review the types of data that will be available and the specific questions that the analysis will address. The City and ADOT also have contracted with an independent investigator, Dr. Simon Washington of the Arizona State University

Action Taken			

Civil Engineering Program, to lead the research.

The last day of operation for the test period is October 23. If ADOT approves a permit extension, cameras and signs will be covered on that date, and in-pavement sensors will continue to gather speed and volume data for 90 days, to provide information for the program analysis. Under Scottsdale's contract with Redflex Traffic Systems, the vendor providing the equipment, the City will continue to pay \$2,761 per month per location to maintain the in-pavement sensors and collect additional readings. The total for three months for all six locations is just under \$50,000.

In addition, after the City covers the cameras, citations issued through October 23 will continue to be processed through the City Court. Speeders cited in the final days of the program will receive citations in the mail after the cameras are covered, but this will not affect the validity of the citations.

Because it will require analysis of collision data from the state and incorporate the post-program speed and volume data gathered after cameras are covered, a final report is expected to be complete sometime after January 1, 2007.

ANALYSIS & ASSESSMENT

The specific goal of the Loop 101 photo enforcement demonstration program is to test and evaluate the effectiveness of photo enforcement technology on the urban freeway system in reducing the number of vehicles that exceed the posted speed limit by 11 mph or more, thereby reducing the number and severity of vehicle collisions.

To determine the program's effectiveness, Dr. Washington will analyze speed and traffic volume data from the City's photo enforcement vendor and crash data obtained from DPS collision reports. Dr. Washington's report will analyze the program's effects on speeds and traffic flow, as well as any potential "spillover" effects on other segments of the Loop 101.

Dr. Washington will prepare a written report and recommendation document. The report will be shared with the Technical Evaluation Committee, and forwarded to the Transportation Commission, City Council and other agencies as appropriate. Dr. Washington's independent review services are under a contract with ADOT, funded through City revenues from the demonstration program. The City has also directly contracted with Dr. Washington to facilitate the Technical Evaluation Committee meetings. The total combined cost of these two contracts is expected to total less than \$75,000, depending on the amount of time required to research and analyze collision reports and other data.

The demonstration program has produced other information valuable to the City. The staff has acquired practical experience in managing a photo enforcement program of this scope, understanding staffing and financial needs and communicating the program to the public.

The program also has provided an initial gauge of public reaction. Surveys on the use of photo enforcement on freeways have been conducted by at least one independent public opinion analyst and by the City. In a February 2006 survey conducted by Arizona State University and KAET/Channel 8, 64 percent of residents supported use of photo enforcement on state highways and freeways. Scottsdale had no involvement in this poll. Its results were similar to a May 2005

survey of Maricopa County residents conducted for the City. In that survey, 62 percent of respondents favored the use of photo enforcement on freeways. A follow-up statewide survey regarding public acceptance of photo enforcement is scheduled in November, and results will be available in December or early January.

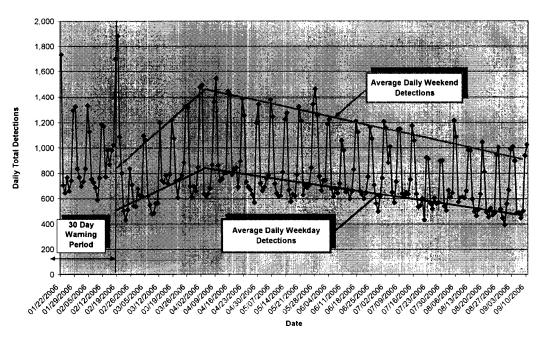
The City also is planning additional public outreach to gauge reaction when the program is completed. A more detailed report on public reaction will be included when the technical study is presented to the Council.

Program Results to Date

The program appears to be reducing the number of speeders significantly. Prior to the implementation of the program, data collected along this section of the Loop 101 showed that over 50 percent of all vehicles during non-peak periods were traveling above 76 mph. Based on the latest estimates of freeway traffic volume, City staff has estimated that less than 1 percent of vehicles have exceeded the 76 mph threshold since citations began.

In addition, the average number of times per day that motorists were detected driving above the 76 mph threshold rose during the early part of the citation period, but has declined steadily since mid-April, as shown in the graph below. This trend holds true for weekdays and weekends. (Since the beginning of the program, the average number of detections on weekends has been higher than on weekdays.) The program recorded its two lowest one-day totals for detections on Aug. 30 and Sept. 14.

LOOP 101 DAILY TOTAL DETECTIONS



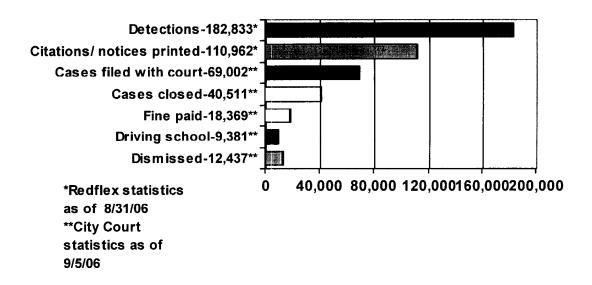
The proportion of speed detections that result in citations is roughly the same for City streets and the freeway. As of August 31, about 39 percent of the speeding incidents photographed on the freeway did not result in a citation or a "notice of violation" – a notice sent to the vehicle owner when the driver cannot be identified. By comparison, for the same period, about 39 percent of the

detections by fixed speed cameras on City streets also did not produce citations or notice. The main reasons photos are not usable include license plates obscured by another vehicle or not visible, and drivers who cannot be identified because of obstructions, glare or other factors. More details on these factors are included in an attached summary of key statistics from the August Customer Management Report, as well as the report itself, which provides details for each camera.

The City received its first collision reports from DPS in late summer and is just beginning to sort through that data. Consequently, the City does not yet have an analysis of accidents during the demonstration period and a comparison with prior years. Collision numbers recently became available for 2005, however, and show collisions in the year leading up to the program dropped, after several years of increases. MAG released the new data in July, showing that collisions on Scottsdale's portion of the freeway rose from 209 in 2002 to 262 in 2003 and 403 in 2004, and then declined to 297 in 2005. The number of crashes along the entire length of the Loop 101 declined by 4 percent between 2004 and 2005.

Operating impacts, revenues and expenses to date

The City has hired four employees on a temporary basis – one at the Police Department, one prosecutor and two in the City Court -- to deal with the increased workload associated with the demonstration project.



The chart above provides a snapshot of the volumes of detections and citations working their way through the process at the beginning of September. A total of 69,002 cases had been filed with the court as of September 5, 2006 (a total of 138 work days since citations began on February 22, 2006). As of that date, 40,511 – or 59 percent -- had been closed. Of the closed cases, 18,369 paid a fine, 9,381 attended driving school and 12,437 were dismissed – most of them on the City's motion after vehicle owners provided identification showing they were not the driver of the vehicle when it was photographed.

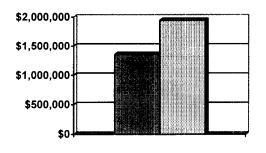
On the financial side, the program operated at a deficit until this summer, when

revenues began to outpace expenses. As of August 31, direct program expenses to the General Fund totaled about \$1.3 million. Revenue returned to the General Fund totaled about \$1.9 million, nearly \$600,000 more than expenses.

These figures do not include indirect costs for staff members who have spent time on the project, but are not directly involved in the enforcement process.

In addition to the general fund revenues, the program had generated about \$1.4

million in surcharge revenue for the state and \$266,600 for the Scottsdale Court Enhancement Fund.



The City's Financial Services Department is projecting General Fund revenues will exceed direct expenses for the remaining months of the program, and as the City continues to process citations after cameras are shut off on Oct. 23.

☐ Gen Fund expenses ☐ Gen Fund revenue

OTHER CONSIDERATIONS

Scottsdale's current contract with Redflex Traffic Systems for photo enforcement services will expire on June 30, 2007. The staff has already begun discussions about the bid process for the next contract. Staff will be seeking direction from the Council regarding the scope of the program, including the potential for any future freeway applications.

OPTIONS & STAFF RECOMMENDATION

Staff recommends that the City Council authorize staff to request an extension of the existing ADOT right-of-way permit through January 23, 2007, for the purpose of continuing to collect speed and volume data while photo enforcement cameras are inactive.

Staff also is requesting any additional direction the Council wishes to provide before returning with a final report after the beginning of 2007. At that time, the staff expects to present at least three options to the Council:

- Take no further action, which would effectively end the program.
- Make a formal request that the state assume direct responsibility for the program and resume operation of the cameras as soon as possible.
- Seek an extension of the ADOT permit to allow the City to resume operation of the program early in 2007.

RESPONSIBLE DEPT(S)

Police, Court, City Attorney, Transportation, CAPA, City Manager/Intergovernmental, Financial Services

STAFF CONTACT(S)

Bruce Kalin: 480-312-7014 / bkalin@scottsdaleaz.gov Janet Cornell: 480-312-2775 / jcornell@scottsdaleaz.gov Caron Close: 480-312-3161 / cclose@scottsdaleaz.gov Luis Santaella: 480-312-7771 / Isantaella@scottsdaleaz.gov

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		9-20.06	
Approved By		Vibrail	
APPROVED BY	Alan G. Rodbell, Chief of Police	Date	
	Patral Josh	9/20/06	
	Pat Dodds, Public Affairs Officer	Date	
	Mary O Corrag	9/20/06	
	Mary O'Connor, Transportation General Manager	Date	
	Ciccia	9/20/06	
	Craig Clifford, Financial Services General Manager	Date	
	ly 1. L	9.20.2006	
	Janet M. Dolan, City Manager	Date	
	/		

ATTACHMENTS

- 1. ADOT Right of Way Use Permit Extension Request through January 23, 2007
- 2. Summary of Customer Management Report for Jan. 1 through Aug. 31 showing total detections for Loop 101 cameras and street-level cameras, main reasons photos are rejected, and total notices and citations printed
- 3. Customer Management Report, 1/1/06-8/31/06, showing detections (violations) for each fixed camera location, reasons for rejecting photos and total notices printed
- 4. Spreadsheet showing daily detections (flashes) on Loop 101 since Jan. 22 at six camera locations
- 5. Spreadsheet showing top speeds detected at each location and top daily speed

ARIZONA DEPARTMENT OF TRANSPORTATION

2140 West Hilton Avenue Phoenix, Arizona 85009 602-712-7521

APPLICATION FOR PERMIT TO USE STATE HIGHWAY RIGHT OF WAY (PRINT OR TYPE)

Application is her	eby made to ente	er in upon and use a portion	of the Sta	ate Highway.		
Name of Encroad	chment Owner	City of Scottsdale	14.794			
Address of Owne	er	7447 East Indian School	Road			
	CityScottso	dale	_State_	Arizona	Zip 85251	
	Signature of Own	ner Mary	<u> ()(</u>	MAR	Phone 480-312	2-2334
Name of Applicar	ntMary O	O'Connor	l	egal Relationship t	o Owner <u>Transportation</u> (General Manager
Mailing Address		7447 East Indian School	Road		****	
	City	Scottsdale	_ State	Arizona	Zip <u>85251</u>	
	Phone 480-312	2-2334				
	Signature of App	olicant				
	(Applicant and Owner are i	responsi	ble for conditions	on permit)	
City (in or near)_	Scottso	dale		_ PROJECT NO		
Highway Route N	lo. SR101L	Approximately		_ Feet	of Milepost No. 34.51 to	42.35
continue to gath maintenance on closures or beh	her speed and v roadside equipr ind existing barr	neras will be covered and olume data needed for the ment will be performed ou riers. Large warning signs peed limit signs.	e evalua	tion of the Photo the travel lanes a	Enforcement Demonstr nd will be done using sh	ation Project. All ort term shoulder
		FOR DEPA	RTMEŅ'	T USE ONLY		
WITH THE ACCE	EPTANCÉ OF TH	with the following direction IS PERMIT, THE PERMITT AKE PLACE INSIDE THE R	EE AGRI	EES TO ALL THE C	CONDITIONS AS DESCRI	BED HEREIN. NO
Date		_		PERMITS	SUPERVISOR	
		PERM	IT AND L	ICENSE		
Permit No.						
A permit and lice condition that eve	ense is hereby iss ery agreement an	sued to the foregoing licens nd covenant therein contain fications. Construction is au	ed is fait	hfully performed, a	nd said work to be perfori	pon the expressed med in accordance
Dated October	23, 2006		ARIZ	ONA DEPARTMEN	IT OF TRANSPORTATIO	N
Construction to b	e completed by:		Ву			
January	23, 2007 Date				Authorized Signature	

FOR AND IN CONSIDERATION of the granting of a permit or license for the purpose set forth herein the Licensee hereby agrees, covenants, and binds said Licensee as follows, to-wit:

- 1. The State assumes no financial obligation or liability under this Permit in association with the Project work requested by the *City* and provided herein. The *City* assumes full responsibility for the design, plans and specifications, reports, the engineering in connection therewith, the construction of the improvements contemplated, cost over-runs and construction claims. The *City* shall require its contractors to name the State as an additional insured in the contractor's insurance policies. The *City* shall also require its contractors to name the State as an additional indemnitee in the *City* contracts with its contractors. It is understood and agreed that any damages arising from entering into or carrying out, in any respect, the terms of this agreement or any modification thereof, shall be solely the liability of the *City* and that to the extent permitted by law, the *City* hereby agrees to save, hold harmless and indemnify from loss the State, any of its departments, agencies, officers or employees from any and all cost and/or damage incurred by any of the above and from any other damage to any person or property whatsoever, which is caused by activity, condition, or event arising out of the performance or nonperformance of any provisions of this Agreement by the State, any of its departments, agencies, officers and employees, the City, any of its agents, officers and employees, or any of its independent contractors. Costs incurred by the State, any of its departments, agencies, officers or employees shall include in the event of any action, court costs, and expenses of litigation or reasonable attorneys' fees.
- 2. That all work done shall be at the sole cost and expense of the Licensee, and shall be done at such time and in such manner as to be least inconvenient to the traveling public, and as directed by the agent of the Licensor. Work must be finished in the time specified on permit.
- That when the proposed work is completed the Licensee shall repair the roadbed and replace the surfacing
 material thereon and will leave the said road in as good a condition as it is now, so far as the road is affected by
 the Licensee.
- 4. If the subject of the permit or license fails to pass final inspection, the Licensee will remove or replace the same within such time as specified by written notice from the Licensor; or if at any time hereafter, any material used by the Licensee is replacing or reconstructing any part of said highway proves defective, the Licensee will replace the same with the kind and quality of material which the Licensor shall specify.
- 5. That if the title and possession of any property placed upon the right of way by the Licensee remains in said Licensee, the Licensee shall and will promptly perform all necessary repair work upon written notice from the Licensor, and will not permit or allow any condition to exist which would be a hazard or source of danger to the traveling public.
- 6. That if at anytime hereafter the right of way, or any portion thereof, occupied and used by the Licensee may be needed or required by the Licensor, any permit or license granted in pursuance of this application, may be revoked by the Licensor and all rights thereunder terminated, and upon sufficient notice, the Licensee shall and will remove all property belonging to said Licensee.
- 7. That in the event that the work to be done under the authority of the permit or license necessitates the creation of any hazard or source of danger to any person or vehicle using said highway, said Licensee shall and will provide and maintain at all times during the existence of said hazard, sufficient barriers, danger signals, lanterns, detours, and shall and will take such other measures of precaution as the Licensor shall direct.
- 8. That if the work to be undertaken is of such a nature or character that the Licensor deems it necessary that said work be laid out, or inspected by the Licensor, said Licensee will defray any and all expenses incurred by said Licensor, and herein agrees to reimburse the Licensor, and for that purpose will deposit with the Licensor a sum of money in the amount necessary to cover all cost incurred by the Licensor.
- 9. All construction to be as per final plans approved with permit.
- 10. Licensee agrees to advise the state of any change of ownership.
- 11. In case of the eviction of Licensee by anyone owning or claiming title to or any interest in said premises, or any part thereof, State shall not be liable to Licensee for any damage of any nature whatsoever, or to refund any monies paid hereunder.
- 12. It is the responsibility of the permittee to investigate the necessity of additional permits or approvals from local governments or agencies, such as towns, cities or counties.

Summary of Customer Management Report Key Statistics -- Loop 101 and Streets Program, January-August 2006

		Total-Loop	% of Total Loop 101	Total-Streets	% of Total Streets Program	Grand Total-101	% of Grand Total - 101
		101	Violations	Program	Violations	& Streets	& Streets
Total detections		182,833	3 100.0%	24,819	100.0%	, 207,652	100.0%
Rejected because of uncontrollable factors							
Onsidore	s Driver obstruction/						
	duckers	20,679	•	8		N	11.0%
	Motorcycle helmets	942			%2.0		0.5%
	Plate obstruction	7,734	4.2%				4.0%
	Vehicle obstruction	2,785		105	5 0.4%		1.4%
Weather	_						
	Sun glare	6,446	3.5%	1,275	5 5.1%	5 7,721	3.7%
Registration Issues							
	Can not identify state	1,275	9.7%	781 187		5 1,462	%2.0
	Out-of-country plate	550			7 0.3%	627	0.3%
	Paper plates	10,736		1,437		5 12,173	2.9%
	Wrong or no DMV						
	registration	9,586	5 5.2%	% 940		5 10,526	5.1%
All other uncontrollable factors		988	3 0.5%	146	9.0	1,134	0.5%
:							
Rejected because of vendor controllable factors		10,150) 5.6%	2,610) 10.5%	, 12,760	6.1%
Total rejected		71,871	1 39.3%	9,701	1 39.1%	81,572	39.3%
:							
Notices/violations printed		110,962	2 60.7%	15,118	3 60.9% 3 60.9%	, 126,080	%).09

Attachment (3)

Customer Management Report (Scottsdale) Fixed Speed Incidents 01-Jan-2006 to 31-Aug-2006

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		SD-101CA-01	SD-101HA-01	SD-101RA-01	SD-101SC-01	SD-101SHN-01	SD-101SHS-01	SD-FLFL-01	SD-FLFL-03	SD-HAIS-01	SD-HAMC-01	SD-PIPP-01	SD-SCSH-01	SD-SDCA-01	SD-SDFL-01	SD-SDTH-01	SD-SH90-01	TOTAL
Total Violations	tions	6879	20302	57887	37751	28244	31770	9146	6429	482	1274	639	1092	1278	1159	774	2546	207652
Less Unco	Less Uncontrollable Factors																	
Obstruction	Driver Obstruction/Duckers	968	2452	6955	3974	2981	3421	778	699	44	118	52	64	69	45	29	278	22825
	Motor Cycle Helmet	06	152	162	229	172	137	46	33	9	0	7	80	32	27	18	0	1119
	Plate Obstruction (PD)	263	782	2793	1362	1253	1281	130	154	11	33	15	37	41	39	28	113	8335
	Vehicle Obstruction	88	336	981	442	503	434	14	21	0	င	7	6	28	9	7	10	2890
Police	Citation Issued manually	0	0	0	0	0	-	0	0	0	0	0	0	0	0	0	0	-
Rejects	Driver Unidentifiable	10	8	74	36	22	29	5	80	0	2	-	2	2	0	0	2	223
	Gender Mismatch	0	0	2	+	2	0	0	0	0	0	0	0	0	0	0	0	5
	Incorrect/Incomplete DMV	0	-	2	-	0	က	0	2	0	0	0	0	0	0	0	0	6
	Plate Obstruction	0	0	4	0	0	0	0	0	0	0	0	o	0	С	0	0	-
Policy/Weath	Policy/Weath Extended Vehicle	6	26	159	75	31	63	1	72	0	-	2	4	0	2	0	4	414
ē	Sun Glare	508	1632	1436	296	1925	649	227	485	17	223	45	51	20	31	53	93	7721
	Two Vehicles in Beam	ю	7	39	15	21	18	3	'n	0	4	0	2	-	-		2	124
	Weather/Nature	4	25	124	7	28	16	21	5	သ	2	4	0	3	2	-	ဗ	250
Registration	Can Not Identify State	48	161	402	234	228	202	54	52	5	13	0	7	18	13	မ	19	1462
Issues	Gender Match	9	7	24	31	7	23	က		0	0	က	0	0	1	0	-	107
	Out of Country Plate	24	89	186	101	87	84	38	23	0	4	0	5	-	က	0	3	627
	Paper Plates	451	1314	3250	2185	1673	1863	527	453	19	48	31	48	78	47	51	135	12173
	Wrong or No DMV	326	1006	2924	2006	1639	1685	389	213	18	48	52	14	49	4 5	24	88	10526
Cub Total Violations	out in the second	2732	12303	19514	76756	17677	9909	6900	1017	257	430 778	193	814	906	898	556	1795	138840
Out of the Progress	VIOLENCIES .	: -							· -				c	-	c	-	c	C
Available F	Available For Prosecution	4147	12303	38373	26756	17672	21861	0069	4278	357	778	446	814	906	868	556	1795	138840
Less Rejects	cts																	
Camera	Databar Unreadable/Incorrect	%000 O	%000 O	%000 0	%000 O	%000 o	%000 0	%000 O	1 000%	%000 0	%000 o	%000 O	%000 0	%000 0	1 000%	%000 0	%000 0	2 000%
Malfunction	Digital Distortion	%000 2	%000 O	\$ 000%	1 000%	2 000%	%000 9	%000 O	2 000%	1 000%	%000 0	2 000%	%000 o	1 000%	1 000%	%000 0	1 000%	29 000%

	Face Camera Flash	26 001%	52 000%	52 000% 77 000% 76 000%	76 000%	25 000%	103 000%	19 000%	19 000%	19 005%	7 001%	8 002%	7 001%	13 001%	7 001%	17 003%	20 001%	525 000%
	Face Camera Focus Blurry	36 001%	92 001%	337 001%	63 000%	94 001%	158 001%	15 000%	35 001%	12 003%	17 002%	16 004%	29 004%	15 002%	6 001%	19 003%	26 001%	970 001%
	Face Camera No Flash	10 000%	54 000%	%000 9	6 000% 142 001%	%000 9	7 000%	55 001%	3 000%	30 008%	1 000%	10 002%	1 000%	3 000%	5 001%	6 001%	8 000%	347 000%
	Face Not in Frame	71 002%	71 002% 172 001%	493 001%	582 002% 327 002%	327 002%	531 002%	39 001%	668 016%	10 003%	14 002%	13 003%	8 001%	13 001%	11 001%	3 001%	35 002% 2990 002%	990 005%
	Image Missing	2 000%	2 000%	21 000%	12 000%	12 000% 8 000%	32 000%	11 000%	8 000%	%000 O	%000 o	1 000%	%000 0	%000 O	%000 o	%000 0	2 000%	102 000%
	Misc Camera Issue	40 001%	27 000%	27 000% 498 001%		19 000% 283 002%	558 003%	4 000%	17 000%	5 001%	%000 O	14 003%	2 000%	11 001%	2 000%	1 000%	18 001% 1499 001%	499 001%
	Plate Burn Out	37 001% 192 002%	192 002%	%000 26	38 000%	38 000% 181 001%	%000 6	12 000%	36 001%	%000 o	32 004%	6 001%	22 003%	4 000%	2 000%	%000 0	22 001%	%000 069
	Plate Not in Frame	31 001%	133 001%	287 001%	198 001%	93 001%	353 002%	177 003%	50 001%	11 003%	5 001%	4 001%	4 000%	26 003%	11 001%	27 005%	44 002% 1454 001%	454 001%
	Plate Radar False Trigger	%000 o	2 000%	0 000% 2 000% 12 000%	!	14 000% 10 000%	11 000%	1 000%	2 000%	%000 O	1 000%	%000 0	%000 O	%000 O	%000 O	%000 0	1 000%	24 000%
	Rear Plate Camera Blurry	136 003%	268 002%	520 001%	298 001% 761 004%	761 004%	318 001%	50 001%	64 001%	13 004%	71 009%	2 000%	6 001%	28 003%	24 003%	18 003%	124 007% 2701 002%	701 002%
	Rear Plate Flash Inappropriate	%000 6	33 000%	33 000%	11 000%	21 000%	20 000%	26 000%	%000 6	2 001%	7 001%	2 000%	1 000%	2 000%	5 001%	4 001%	11 001%	196 000%
	Rear Plate No Flash	2 000%	8 000%	8 000% 41 000%	%000 9	6 000% 15 000%	51 000%	16 000%	33 001%	3 001%	%000 O	1 000%	1 000%	4 000%	9 001%	2 000%	10 001%	207 000%
	Scene Image Blumy	%000 O	%000 O	1 000%	%000 O	1 000%	%000 0	%000 0	%000 0	%000 O	1 000%	%000 O	%000 O	%000 O	%000 0	1 000%	%000 O	4 000%
	Scene Image Flash Inappropriate	%000 0	%000 O	1 000%	2 000%	1 000%	2 000%	%000 0	%000 0	%000 0	1 000%	%000 o	%000 0	%000 0	1 000%	%000 0	%000 O	11 000%
	Scene Image No Flash	%000 o	2 000%	%000 O	2 000%	%000 0	1 000%	1 000%	2 000%	2 001%	%000 0	7 002%	%000 0	2 000%	9 001%	1 000%	1 000%	30 000%
	Vehide Not in Frame	14 000%	40 000%	40 000% 160 000%	%000 6 <i>t</i>	33 000%	163 001%	%000 6	41 001%	3 001%	%000 0	1 000%	%000 O	3 000%	15 002%	1 000%	10 001%	572 000%
Police	Driver Unidentifiable images poor	1 000%	8 000%	28 000%	1 000%	1 000%	%000 6	%000 O	2 000%	%000 0	%000 0	1 000%	1 000%	1 000%	%000 o	%000 O	%000 o	26 000%
Rejects	Incorrect Details	2 000%	3 000%	30 000%	23 000%	16 000%	%000 2	4 000%	\$ 000%	%D00 0	5 001%	%000 O	3 000%	1 000%	1 000%	%000 0	%000 o	100 000%
Process	Too Old	2 000%	18 000%	47 000%	43 000%	27 000%	32 000%	22 000%	17 000%	%D00 0	1 000%	1 000%	1 000%	%000 0	2 000%	2 000%	%000 9	221 000%
Total		431 010% 1	106 009%	2694 007%	1613 006%	431 010% 1106 009% 2694 007% 1613 006% 1935 011% 2371 011%	;	461 007% 1017 024%		111 031%	163 021%	89 020%	86 011%	127 014%	112 012%	102 018%	342 019%	12760
Notices Printed		3716 090%	11197	35679	25143	15737	19490 (19490 6439 093% 3261 076%		246 069%	615 079%	357 080%	728 089%	779 086%	786 088%	454 082% 1453 081%	1453 081%	126080

	N/B 101-	W/B 101-	S/B 101-	E/B 101-				
	Cactus	Hayden	Raintree	Scottsdale	N/B 101-Shea	S/B 101-Shea	S/B 101-Shea DAILY TOTAL	
Warning phase	700 7	CCOC	7 608	000	040	277 3		
nasnes(1/22-2/22)	1,204	3,032	900,7	6,308	0,040	0//c	30,169	
Citation phase		-						
flashes (2/22 to date)	6,359	18,152	54,367	33,810	24,491	27,665	164,844	
(1/22 TO DATE)	7,563	21,784	61,975	40,119	30,131	33,441	195,013	
l otal program days (1/22 to date)	240	240	240	240	240	240	240	
Average flashes per								
day (1/22 to date)	32	91	258	167	126	139	813	
nignest number of flashes on one day Lowest number of	94	224	462	431	439	368	1,881	
flashes on one day	7	24	122	0	0	▼-	394	
	N/B 101-		S/B 101-	E/B 101-	10 707 0114	0 707 0		AVERAGE/
01/22/2006	Cactus 94	Hayden 201	Kaintree 410	Scousdale 431	N/B 101-5nea 439	S/B 101-Snea 158	DAIL	1 733 CAMERA 289
01/23/2006	 88 88	153	146	148	172	48		118
01/24/2006	35	147	151	111	137	99		108
01/25/2006	32	67	181	157	168	162		128
01/26/2006	29	89	243	52	120	150		110
01/27/2006	27	99	201	227	58	164		124
01/28/2006	61	123	298	296	234	281		216
01/29/2006	25	135	293	297	230	308	 -	220
01/30/2006	21	6/	226	1/4	141	192		139
01/31/2006	23	82	192	1/9	132	161		128
02/01/2006	25	72	185	146	126	143		116
02/02/2009	21	80	191	184	/	CC		123
02/03/2006	23	9	239	185	145			139
02/04/2006	47	147	357	290	216			222
02/02/2006	40	118	280	258	204	227	<u>~</u>	88
02/06/2006	27	89	184	145	172	138		126
02/01/2006	24	125	151	124	161	142	727	121

	N/B 101-	W/B 101-	S/B	S/B 101-	E/B 101-					AVERAGE/
	Cactus	Hayden	Rair	Raintree	Scottsdale	N/B 101-Shea	Shea	S/B 101-Shea	DAILY TOTAL	CAMERA
02/08/2006			9	160		0.	141	147	687	115
02/09/2006		18	82	163	į	115	98	115	591	66
02/10/2006	2	22	87	200		9,	130	145	763	127
02/11/2006	ιΩ	53	211	289		ۇ ر	232	222	1,186	198
02/12/2006	LC)	52	154	25.		4	265	235		195
02/13/2006		25	98	21		21	124	168		129
02/14/2006	•	44	109	27.		92	165	235		164
02/15/2006		28	94	17.		23	182	164	898	145
02/16/2006	(7)	37	118	292		204	173	157	981	164
02/17/2006	4	43	119	29		82	135	180	1,022	170
02/18/2006	ω.	29	221	42(347	298	348		284
02/19/2006	05	94	224	439	:	390	366	368		314
02/20/2006	7	41	138	29	<u> </u>	210	211	190	-	181
02/21/2006		28	94	204		172	148	155		134
05222006	7	7	57	124		106:	111	88		8
02/23/2006	:	7	53	12	i	96	83	29	430	72
02/24/2006		16.	7	12		<u>∞</u>	94	88		85
02/25/2006	~~~	28	102	<u>)</u>		96	183	166		139
02/26/2006		37	32	7.	· !	6	218	146		118
02/27/2006		7	29	133	•	15	105	101		91
02/28/2006			31	14		36	120	92		06
03/01/2006	CA	g	75	204		59	103	115		113
03/02/2006		19.	9/	234		48	80	99	625	4
03/03/2006	N	28	22	<u></u>		152	119	72		105
03/04/2006		38	149	32(248	169	161	.	182
03/05/2006	\$	<u></u>	164	375		257	208	_		176
03/06/2006		Σ.	83	30	•	173	118	29		10
03/07/2006	7	Σ.	65	14.		150	115	54	550	92
03/08/2006		7	49	174		110	85	25		88
03/09/2006			47	15,	•	125	120	29		81
03/10/2006		23	28	204		134	106	33		83
03/11/2006	_	—	99	200		128	96	62	:	98
03/12/2006	(O)	34	104	333		35	277	186	-	200
03/13/2006		7	93	246		157	133	103	744	124
03/14/2006	Z	7	93	26		18	108	91	730	122

	N/B 101-	W/B 101-	S/B 101-	-	E/B 101-					AVERAGE/
	Cactus	Hayden	Raintree		Scottsdale	N/B 101-Shea	a S/B 101-Shea	shea DAII	LY TOTAL	CAMERA
03/15/2006		35	73				7.	102	783	131
03/16/2006		26	102	215	133		120	121	717	120
03/17/2006		26	93	267	151	:	139	118	794	132
03/18/2006		54	133	333	270		7	195	1,219	203
03/19/2006		40	146	308	204	1 223	23	151	1,072	179
03/20/2006		30	97	224	143		12	104	740	123
03/21/2006		20	29	221	93	3 129	6	84	909	101
03/22/2006		20	91	267	178		66	100	755	126
03/23/2006		17.	93	317	144		105	110	786	131
03/24/2006		25	112	365	167		116	100	885	148
03/25/2006		54	147.	390	269	100 m	Θ	8	1321	220
03/26/2006		68	141	398	249	-	7.7	233	1,316	219
03/27/2006		18	88	263	143		97	87	969	116
03/28/2006		26	91	175	128		<u> </u>	102	610	102
03/29/2006		24	20	217	184		22	66	969	116
03/30/2006		24	26	223	4		82	98	629	110
03/31/2006		23	96	309	175	114	4	125	846	141
04/01/2006		73	144	462	30.		23	246	1,479	247
04/02/2006		89	180	416	306	249	61	274	1,493	249
04/03/2006		20	65	272	16.		80	13	641	107
04/04/2006		29	98	195	112		96	103	621	104
04/05/2006		24	48	205	17.		. 80	22	640	107
04/06/2006		23	73	239	126		114	107	682	114
04/07/2006	1	34	86	309	165		120	138	864	144
04/08/2006		69	96	433	300		25	236	1,359	227
04/09/2006	;	79	159	449	314		4	268	1,543	257
04/10/2006		22	107	247	206		146	134	862	144
04/11/2006		23	83	263	14(56	101	742	124
04/12/2006	:	29	81.	291	149		101	108	759	127
04/13/2006		29	110	296	15		88	125	803	134
04/14/2006		35	80	236	207		152	95	805	134
04/15/2006		65	136	435	314		82	526	1,444	241
04/16/2006		78	120	401	266		32	267	1,414	236
04/17/2006		20	89	245	179		137	143	792	132
04/18/2006		20	108	294	186		6(116	833	136

	N/B 101.	W/B 101-	S/B 101-	F/R 101.			AVERAGE	AGE/
	Cactus	Hayden	Raintree	Scottsdale	N/B 101-Shea	S/B 101-Shea	DAILY TOTAL CAMERA	Ya
05/24/2006			Ì		8	120	069	115
05/25/2006	14	1 7	5 29	257 151	100	110	707	118
05/26/2006	. 16		23	82	134	157	F 842	140
05/27/2006	77	103						224
05/28/2006	88	3 133		402 321			-	244
05/29/2006	63	3 145			178	268	₩.	209
05/30/2006	34	7	2		111	129	 	130
05/31/2006	25	2	8	237 137	53			111
06/01/2006	27	91			51	145		124
06/02/2006				282 118				125
06/03/2006	32				1			198
06/04/2006	52	105		391 289	158		1,226	204
06/05/2006		99			;		. 1	113
06/06/2006		3			84	411		103
06/07/2006	16	9. 7	7		82	116		114
06/08/2006	, -	7	0		80	110		107
06/09/2006	16	9		258 182	69	128		120
06/10/2006	33	138			0	225		176
06/11/2006	33	11	<u>ග</u>			245		164 40
06/12/2006	Ψ.	3		205 150	62			109
06/13/2006		:	55 2,		83	130		112
06/14/2006	1 -	2.	2	03 137	200	107	598	100
06/15/2006	-	1 60	_		83			110
06/16/2006	~	99 98		287 181	118	156		138
06/17/2006	33	3 138		339 292	188		1,208	201
06/18/2006	33.		4	369 228	165		_	187
06/19/2006	18		83 2.		88	147		110
06/20/2006		9			69			105
06/21/2006		2	4		26	102		100
06/22/2006	16	4	2	299 120	59	114	650	108
06/23/2006	15		5		79	154	,	129
06/24/2006	69	9 13	.7 3	361 206	173	228		194
06/25/2006	56	5 13	8 2		~ -	210		179
06/26/2006	18	2	2		3	2. 2.		<u>8</u>
06/27/2006	16	9	7 2	271 80	72	65	561	94

	N/B 101-	W/E	W/B 101-	S/B 101-	E/B 101-						AVERAGE/	
	Cactus	Hay	Hayden	Raintree	Scottsdale		N/B 101-Shea	S/B 101-Shea		DAILY TOTAL	CAMERA	
06/28/2006		4	51		206	117	7	_	40	498		83
06/29/2006		31	41		205	128	104	+	108	617		103
06/30/2006		24	2	53	321	122	93	3	151	764		127
07/01/2006		54	7	9	375	259	211		192	1,207		201
07/02/2006		52	-	8	320	281	192	C	193	1,156		193
07/03/2006		38	7	0	294	242	82	-	157	883		147
07/04/2006		49	O	94	293	241	153	3	178	1,008		168
07/05/2006		31	4	45	240	143	93	3	100	652		109
07/06/2006	:	22	52	2	207	114	8	3	82	268		92
07/07/2006		15	_	က	312	129	75	7	131	735		123
07/08/2006		55	-	4	368	225	179	6	204	1,145		191
07/09/2006	4	99	12	23	324	244	196	C	197	1,150		192
07/10/2006		16	ന	39	247	141	82	2	115	640		107
07/11/2006		20	4	48	231	117	7.	2	126	619		103
07/12/2006		15	9	65	235	134	66	6	103	651		109
07/13/2006		. 0	Ø	68	214	146	ŏ	IC.	105	636		106
07/14/2006	·	22	51	_	292	148	104	†	135	752		125
07/15/2006		38	12	25	410	211	194	v t	197	1,175		98
07/16/2006		45	11	_	342	203	162	2	193	1,056		176
02/11/2006		17	9	64	239	123	91		104	638		9
07/18/2006		17	(J)	25	166	117	ð	0)	91	534		89
07/19/2006		26	/	່ເວ	153	98	တိ	\	 	545		6
02//20/2006		19	ω	98	222	117	9	C)	86	601		8
07/21/2006		28	CD	55	149	29	5	2	9/	432		72
07/22/2006		54	13	39	367	0	168	æ	197	925		75
07/23/2006		54	127	7	349	0	181	_	205	916		153
07/24/2006		24	9	09	215	87	8	_	94	561		8
07/25/2006		13	ď)	53	193	104	75	5	79	517		8
02/26/2006		12	CA	4	200	140	96	5	134	605		101
07/27/2006		20	7		173	66	110	b	118	-561		8
07/28/2006		34	Ð	62	214	63	92	0	119	268		32
02/53/2006		40	ω	84	253	168	177	2	178	006		120
07/30/2006	:	51	7	0	272	161	139	6	170	903		151
07/31/2006		17	Ψ,	69	200	9	64	4	86	539	•	8
08/01/2006		17	נא	59	176	77	9		110	506		8

Cactus Hayden Raintree Scottsdale NB 101-Shea SIR 111 All 111		N/B 101-	W/B 101-		S/B 101-	EB	E/B 101-					AVERAGE/
29 81 246 136 65 28 62 252 144 65 28 62 252 144 65 65 137 283 194 170 65 137 283 194 170 70 187 97 86 170 28 256 240 110 73 29 130 291 194 170 86 227 144 73 86 227 110 73 86 227 144 73 86 186 144 73 87 186 104 57 88 240 115 91 86 186 136 134 86 188 92 134 88 176 144 154 88 136 144 144 88 148		Cactus	Hayden	=	Raintree	Sco	ottsdale	N/B 101-Shea	101	DAILY	TOTAL	CAMERA
23 70 195 126 75 28 62 252 144 62 65 137 293 194 170 17 62 226 107 68 21 66 227 107 68 22 220 107 68 68 23 124 170 68 68 24 130 227 140 73 25 240 110 73 150 26 62 124 274 191 152 27 130 213 149 16 66 26 62 148 86 70 67 27 130 336 193 134 154 26 62 148 97 53 134 27 148 247 176 174 144 156 27 44 45 188 92 55 134 28 29 148 149	08/02/2006		59	81	2	46	136				899	111
28 62 144 62 54 127 386 268 155 17 65 137 293 194 170 17 62 226 107 68 28 55 240 110 73 43 130 291 107 68 56 227 144 73 43 130 291 194 173 56 226 107 68 57 240 110 73 56 227 144 73 57 148 274 195 196 57 148 24 136 60 57 148 24 136 60 57 148 24 136 60 57 44 176 136 65 56 176 103 136 136 40 189 97 55 50 148 97 55 66 176 103 136 76 66 176 103 136 70 148 172 148 144	08/03/2006		23	70	**	95	126			2	611	102
54 127 386 268 155 14 137 293 194 170 17 58 256 99 69 28 55 226 107 68 21 66 226 107 68 21 16 226 107 68 22 240 110 73 22 50 124 274 191 150 22 50 124 274 191 152 22 50 149 85 70 22 50 149 85 70 52 148 247 143 154 52 148 247 176 174 54 176 188 97 53 55 148 27 174 176 66 176 176 174 176 75 262 274	08/04/2006		28	62	2	52	144			0	648	108
65 137 293 194 170 14 79 187 97 85 28 256 99 69 69 28 256 107 68 85 21 66 227 107 68 43 130 224 110 73 22 124 274 191 150 22 124 274 191 152 22 130 274 191 152 22 148 247 194 57 22 148 247 143 134 52 148 247 143 154 44 47 176 75 63 57 202 99 53 14 45 188 97 53 44 45 188 97 53 44 45 188 148 113 <td>08/05/2006</td> <td></td> <td>54</td> <td>127</td> <td>က</td> <td>98</td> <td>268</td> <td></td> <td>,</td> <td>V</td> <td>1,214</td> <td>202</td>	08/05/2006		54	127	က	98	268		,	V	1,214	202
14 79 187 97 85 17 58 256 99 69 69 28 55 240 110 73 21 66 227 144 73 43 130 291 195 68 56 124 274 191 150 66 128 274 191 152 10 66 184 274 191 152 22 50 149 85 70 176 57 22 50 149 85 70 176 57 176	08/06/2006		35	137	2	93	194			က	1,085	181
17 58 256 99 69 69 28 55 226 107 68 21 66 227 144 73 43 130 291 196 150 56 124 274 191 165 66 223 116 69 69 66 227 144 73 70 291 191 152 10 65 186 104 57 20 66 186 104 57 10 66 188 97 53 10 66 188 97 53 10 42 176 101 57 4 45 189 92 55 25 47 176 101 57 44 49 189 92 55 27 202 99 53 54 44 45 118 327 244 101 45 <td< td=""><td>08/07/2006</td><td></td><td>14</td><td>79</td><td>_</td><td>87</td><td>97</td><td></td><td></td><td>2</td><td>574</td><td>ဗ္</td></td<>	08/07/2006		14	79	_	87	97			2	574	ဗ္
17 62 226 107 68 23 55 240 110 73 43 130 291 196 150 56 124 274 191 152 17 69 213 115 92 22 50 149 85 70 22 50 149 85 70 26 62 181 91 64 52 130 336 193 134 52 148 247 143 154 66 188 97 53 17 57 202 99 55 16 49 189 92 55 17 57 202 99 55 44 93 318 193 136 16 44 148 112 44 17 42 124 104 46 <	08/08/2006		17	28	2	26	66			_	610	102
28 55 240 110 73 43 130 291 194 73 43 130 291 195 150 17 69 213 115 92 22 50 149 85 70 22 60 149 85 70 26 62 181 91 67 17 82 240 136 60 52 148 240 136 60 52 148 247 143 154 52 47 176 75 63 17 57 202 99 53 25 66 176 176 57 44 93 318 133 136 44 93 148 113 44 25 39 148 113 44 25 39 148 104 46<	08/09/2006		17	62	2	26	107			4	614	102
21 66 227 144 73 43 130 291 195 150 56 124 274 191 152 19 65 186 104 57 22 50 149 85 70 26 65 181 91 64 17 82 240 136 60 52 130 336 193 134 16 66 188 97 53 17 57 202 99 53 17 57 202 99 55 16 66 176 101 57 44 93 318 193 136 14 45 198 113 44 25 39 148 113 44 10 58 239 101 36 25 39 148 113 46<	08/10/2006		28	22	2	40	110			တ	605	101
43 130 291 195 150 56 124 274 191 152 10 65 186 104 57 22 50 149 85 70 26 62 181 91 64 52 130 336 193 134 52 148 247 143 154 16 66 188 97 53 17 57 202 99 53 17 49 189 92 55 25 66 176 101 57 44 93 318 193 136 44 93 318 112 56 14 45 198 112 56 15 58 239 101 36 16 62 174 144 58 25 39 148 113 44 16 16 174 144 58 25	08/11/2006		21	99	2	27	144			2	663	111
56 124 274 191 152 17 69 213 115 92 22 50 149 85 70 26 62 181 91 64 17 82 240 136 60 52 148 247 143 154 16 66 188 97 53 17 57 202 99 53 16 49 189 92 55 25 66 176 101 57 44 93 318 193 136 45 189 92 55 40 189 92 55 44 45 189 13 44 45 198 112 56 45 124 104 46 47 128 113 44 48 129 124 104 46 44 129 323 160 174	08/12/2006		43	130	2	91	195			က	982	164
17 69 213 115 92 19 65 186 104 57 26 62 181 91 57 26 62 181 91 64 52 130 336 193 134 52 148 247 143 154 16 66 188 97 53 17 57 202 99 53 17 57 101 57 44 93 318 193 136 44 93 318 193 136 45 189 92 55 44 93 318 193 136 14 45 198 113 44 10 58 239 101 46 25 62 277 144 58 16 142 129 120 120 18<	08/13/2006		26	124	2	74	191			3	086	163
19 65 186 104 57 22 50 149 85 70 26 62 181 91 64 17 82 240 136 60 52 130 336 193 134 52 148 247 176 75 63 17 57 202 99 53 16 49 189 92 55 25 66 176 101 57 44 93 318 193 136 45 189 92 55 25 66 176 101 57 44 93 318 193 136 16 45 198 112 46 25 39 148 113 44 26 62 277 144 58 27 124 16 16	08/14/2006		17	69	2	13	115				265	100
22 50 149 85 70 26 62 181 91 64 17 82 240 136 60 52 148 247 143 154 16 66 188 97 53 17 57 202 99 53 16 49 189 92 55 25 66 176 101 57 26 66 176 101 57 44 93 318 193 136 42 148 112 56 25 39 148 113 44 10 58 239 101 36 25 62 277 144 58 10 58 239 101 36 26 62 277 144 58 44 129 323 150 174 64 142 265 120 143 88 150 129 53 60 170 64 142 66 10 144 265 120 144 143	08/15/2006		19	65	–	86	104			7	498	83
26 62 181 91 64 17 82 240 136 60 52 148 247 143 154 16 66 188 97 53 17 57 202 99 53 16 49 189 92 55 25 66 176 101 57 44 93 318 193 136 42 148 112 56 25 39 148 113 44 10 58 239 101 36 25 62 277 144 58 44 129 323 101 36 25 39 148 113 44 42 124 104 46 44 129 323 101 36 44 129 323 150 174 64 142 265 120 143 18 129 120 143 18 142 120 143 18 142 120 120 18 148 148 148 <td>08/16/2006</td> <td></td> <td>22</td> <td>50</td> <td>_</td> <td>49</td> <td>85</td> <td></td> <td></td> <td>80</td> <td>464</td> <td>77</td>	08/16/2006		22	50	_	49	85			80	464	77
52 130 336 196 60 52 130 336 193 134 52 148 247 143 154 16 66 188 97 53 17 57 202 99 53 16 49 189 92 55 25 66 176 101 57 44 93 318 193 136 14 45 198 112 56 25 39 148 113 44 10 58 239 101 36 25 62 277 144 58 10 58 239 101 36 26 277 144 58 76 150 150 174 64 142 265 120 143 18 42 120 143 160 18 42 120 144 58 10 58 239 101 36 25 62 277 144 58 64 142 265 120 143 18 <td< td=""><td>08/17/2006</td><td></td><td>56</td><td>62</td><td>_</td><td>81</td><td>91</td><td></td><td></td><td>0</td><td>514</td><td>98</td></td<>	08/17/2006		56	62	_	81	91			0	514	98
52 130 336 193 134 52 148 247 143 154 52 47 176 75 63 17 57 202 99 53 16 49 189 92 55 25 66 176 101 57 44 93 318 193 136 44 93 318 193 136 14 45 198 112 56 25 39 148 113 44 10 58 239 101 36 25 62 277 144 58 44 129 323 101 36 44 129 323 150 158 64 142 265 120 143 88 150 79 60	08/18/2006		17	82	2	40	136			က	638	106
52 148 247 143 154 16 66 188 97 53 22 47 176 75 63 17 57 202 99 53 16 49 189 92 55 66 176 101 57 44 93 318 193 136 44 93 318 112 57 44 93 327 241 116 45 198 112 56 25 39 148 113 44 10 58 239 101 36 25 62 277 144 66 44 129 323 150 158 76 151 316 174 66 84 142 265 120 143 88 150 79 60	08/19/2006		52	130	က	36	193			တ	1,044	174
16 66 188 97 53 22 47 176 75 63 17 57 202 99 53 16 49 189 92 55 44 93 318 101 57 44 93 318 136 56 45 198 112 56 25 39 148 113 44 10 58 124 104 46 44 129 323 101 36 44 129 323 101 36 44 129 323 150 158 44 129 323 150 158 64 142 265 120 143 88 150 79 60	08/20/2006		52	148	2	47	143			ပ	810	135
22 47 176 75 63 17 57 202 99 53 16 49 189 92 55 44 93 318 101 57 42 176 101 57 25 39 148 112 56 25 39 148 113 44 10 58 239 101 36 25 62 277 144 46 44 129 323 101 36 44 129 323 150 158 76 151 36 158 174 84 142 265 174 46 76 151 132 174 88 150 79 60	08/21/2006		16	99	_	88	97			4	464	82
17 57 202 99 53 16 49 189 92 55 44 93 318 101 57 42 418 327 244 116 14 45 198 112 56 25 39 148 113 44 10 58 239 101 36 25 62 277 144 46 44 129 323 101 36 76 151 316 158 76 143 158 174 88 150 79 60	08/22/2006		22	47	•	9/	75		· -	0	453	76
16 49 189 92 55 25 66 176 101 57 44 93 318 193 136 42 118 327 241 116 55 39 148 112 56 25 39 148 113 44 10 58 239 101 36 25 62 277 144 58 44 129 323 101 36 76 151 316 174 64 142 265 120 143 18 88 150 79 60	08/23/2006		17	57	7	02	99			₹.	525	87
25 66 176 101 57 44 93 318 193 136 14 45 198 112 56 25 39 148 113 44 18 42 124 104 46 10 58 239 101 36 25 62 277 144 58 44 129 323 150 158 76 151 316 132 174 64 142 265 120 143 18 88 150 79 60	08/24/2006		16.	49	_	88	92	25		8	469	78
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42 118 327 241 116 14 45 198 112 56 25 39 148 113 44 18 42 124 104 46 10 58 239 101 36 25 62 277 144 58 44 129 323 150 158 76 151 316 132 174 64 142 265 120 143 18 88 150 79 60	08/26/2006		44	93	က	18	193			2	946	158
14 45 198 112 56 25 39 148 113 44 18 42 124 104 46 10 58 239 101 36 25 62 277 144 58 44 129 323 150 158 76 151 316 132 174 64 142 265 120 143 18 88 150 79 60	08/27/2006		42	118	C	2	241	11	3		1001	167
25 39 148 113 44 18 42 124 104 46 10 58 239 101 36 25 62 277 144 58 44 129 323 150 158 76 142 265 120 143 64 142 265 120 143 18 88 150 79 60	08/28/2006		14	45	_	98	112				516	98
18 42 124 104 46 10 58 239 101 36 25 62 277 144 58 44 129 323 150 158 76 151 316 132 174 64 142 265 120 143 18 88 150 79 60	08/29/2006		25	39	-	48	113			œ	447	75
10 58 239 101 36 25 62 277 144 58 44 129 323 150 158 76 151 316 132 174 64 142 265 120 143 18 88 150 79 60	08/30/2006		18	45	_	24	104	4	+		394	99
25 62 277 144 58 44 129 323 150 158 76 151 316 132 174 64 142 265 120 143 18 88 150 79 60	08/31/2006		10	28	2	39	101			4	258	93
44 129 323 150 158 76 151 316 132 174 64 142 265 120 143 18 88 150 79 60	09/01/2006		25	62	2	77	144			က	699	112
76 151 316 132 174 64 142 265 120 143 18 88 150 79 60	09/02/2006		44	129	က	23	150			4	988	165
64 142 265 120 143 18 88 150 79 60	09/03/2006		92	151	က	16	132	•		7	1,006	168
18 88 150 79 60	09/04/2006		94	142	2	65	120		`	ဖ	006	150
	09/02/2006		18	88	-	50	79			2	487	81

Page 7

SE/		82	75	84	157	171	83	79	82	99	88	174	165	87	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0'0	0
AVERAGE/	CAMERA		!												1	i	: 									:						:		;	
	1	489	447	502	940	1,023	534	472	492	396	529	1,042	991	522	0	0	0	0	0	Ö	Ö	0	o	0	0	0	0	0	0	0	0	0	0	0 0	о Э
	DAILY TOTAL	1			!			ı I			į	!						!														į			
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	N/B 101-Shea S/B 101-Shea		; ;									•	•		!																				
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E/B 101-	Scottsdale						<u> </u>				· <u></u> .																								
<u> </u>	. !	196	164	188	321	324	179	152	164	142	180	340	280	179												:	!								
S/B 101-	Raintree						·		i	ı		İ																							
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W/B 101-	Hayden																			i		•													
 		17	17	21	48	48	17	9	24	16	20	29	55	23	-			-	-		٠												+		
N/B 101-	Cactus	:	i					:										:						:					i						
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		/2006	2006	/2006	/2006	/2006	/2006	/2006	/2006	/2006	/2006	/2006	/2006	/2006	2006	/2006	/2006	/2006	/2006	/2006	/2006	/2006	2006	/2006	/2006	/2006	/2006	10/02/2006	10/03/2006	0/04/2006	0/05/2006	10/06/2006	10/07/2006	0/08/2006	0/03/5006
		09/06/2006	09/07/2006	09/08/2006	09/09/2006	09/10/2006	09/11/2006	09/12/2006	09/13/2006	09/14/2006	09/15/2006	09/16/2006	09/17/2006	09/18/2006	09/19/2006	09/20/2006	09/21/2006	09/22/2006	09/23/2006	09/24/2006	09/25/2006	09/26/2006	09/27/2006	09/28/2006	09/29/2006	09/30/2006	10/01/2006	10/02	10/03/	10/04	10/05/	10/06/	10/07/	10/08/	10/03/2006

	N/B 101- Cactus	W/B 101- Hayden	S/B 101- Raintree	E/B 101- Scottsdale	N/B 101- Shea	S/B 101- Shea	Top speed/ day/all cameras	
Program days	240	240	240	240	240	240	240	
# of days top speed = or >100	19	31	52	44	30	32	142	
# of days top speed = or >90	73	121	177	157	109	130	237	
1/22	100	114	96	95	100	103	114	
1/23	122	89	90	97	83	97	122	· ·· · · · · · · · · · · · · · · · · ·
1/24	97	90	93	100	98	89	100	
1/25	85	90	97	92	101	94	101	
1/26	85	96	95	95	98	111	111	
1/27	82	85	91	107	90	87	107	
1/28	95	102	94	110	120	97	120	
1/29	92	96	113	99	96	98	113	
1/30	102	85	113	99	88	96	113	
1/31	81	86	96	92	93	89	96	
2/1	84	89	88	91	92	85	92	
2/2	101	112	91	92	98	95	112	
2/3	85	92	114	88	86	96	114	
2/4	112	98	101	92	95	102	112	
2/5	86	94	108	121	92	94	121	
2/6	85	pro a company of the	93	91	110	98	110	
2/7	95	<u> </u>		95	100	87	100	
2/8	84		87	94	83	91	94	
2/9	79		93	92	97	117	117	
2/10	95		106	96	97	94	106	
2/11	<u> </u>		109	91	90	100	109	
2/12	85	92	94	97	94	130	130	
2/13	82	91	86	88	94	102	102	
2/14	106			131	90	94	131	
2/15	90	110	98	94	101	92	110	· ··· — ·
2/15	90	87	97	93	101	91	105	
2/10	90	93	110		93	91	111	
2/17	94	102	116	112	93	98	116	
2/18	101	102	101	111	113	109	113	
2/19	85	92	90	96	91	93	96	
2/20 2/21	99	92	106	104	88	101		Warnings
			97	mentar representatives messacole: No scotte balancia biology (no Al	84		IU6	Citations:
2/22	99	86	ting 46522 and drive build that the	92 °e	58.847 (55.4 :- 75.3) 10mm/mmmmmmmmm	85		CHANOUS:
2/23	. 87	87	90	86	89	87	90	
2/24	85		86	97	108	86	108	
2/25	86		91	92	93	86		
2/26	86			90	111	110	111	
2/27	79	94	92	108	88	86	108	

	N/B 101- Cactus	W/B 101- Hayden	1	E/B 101- Scottsdale	N/B 101- Shea	S/B 101- Shea	Top speed/ day/all cameras
2/28	95	84	100	101		90	
3/1	105	101	95		94	100	121
3/2	90		98		·	95	98
3/3	84		90			88	
3/4	89	88	107	101	90	89	107
3/5	84		115	•	102	78	115
3/6	83	94	101	94	88	85	101
3/7	106	84	104	96	103	98	106
3/8	82	88	93		-	82	93
3/9	79	91	98	93	.	86	98
3/10	81	87	94	96	89	93	96
3/11	90		88	92		95	95
3/12	91	89	98	90	95	93	98
3/13	90	93	96		94	86	96
3/14	87		88	103	106	84	106
3/15	88	94	95	91	93	86	95
3/16	81	85	100	86	90	116	
3/17	94	89	92	98	110	92	110
3/18	92	97	94		95		101
3/19	89	88	128	99	93	103	128
3/20	85	89	100	94	88	94	100
3/21	84	88	99	99	86	90	99
3/22	91	95	89	111	102	87	111
3/23	87	89		92		87	
3/24	92	96	102	94	92	128	128 31 Days
3/25		93	90	97	101	90	101
3/26	104	101	117	100	87	87	117
3/27	80	84	102	86	91	91	102
3/28	83	89	93	95	82	91	95
3/29	94	105	86	98	86	92	105
3/30	90	92	96	88	102	90	102
3/31	86				96	88	99
4/1	106		98		100	118	
4/2	94				110	99	
-71 <u>-</u>		11,04				99	110
A/3		L					1/13
4/3 4/4	86	96	143	91	98	138	
4/4	86 90	96 95	143 92	91 87	98 84	138 91	95
4/4 4/5	86 90 106	96 95 115	143 92 97	91 87 99	98 84 109	138 91 95	95 115
4/4 4/5 4/6	86 90 106 88	96 95 115 83	143 92 97 91	91 87 99 91	98 84 109 90	138 91 95 91	95 115 91
4/4 4/5 4/6 4/7	86 90 106 88 128	96 95 115 83 91	143 92 97 91 92	91 87 99 91	98 84 109 90 105	138 91 95 91 101	95 115 91 128
4/4 4/5 4/6 4/7 4/8	86 90 106 88 128 106	96 95 115 83 91	143 92 97 91 92	91 87 99 91 90 92	98 84 109 90 105 102	138 91 95 91 101	95 115 91 128 106
4/4 4/5 4/6 4/7 4/8 4/9	86 90 106 88 128 106 88	96 95 115 83 91 99	143 92 97 91 92 91	91 87 99 91 90 92 109	98 84 109 90 105 102 89	138 91 95 91 101 92 94	95 115 91 128 106 109
4/4 4/5 4/6 4/7 4/8 4/9 4/10	86 90 106 88 128 106 88 90	96 95 115 83 91 99	143 92 97 91 92 91 94 92	91 87 99 91 90 92 109	98 84 109 90 105 102 89 92	138 91 95 91 101 92 94	95 115 91 128 106 109
4/4 4/5 4/6 4/7 4/8 4/9 4/10	86 90 106 88 128 106 88 90	96 95 115 83 91 99 90 93	143 92 97 91 92 91 94 92	91 87 99 91 90 92 109 94 88	98 84 109 90 105 102 89 92 88	138 91 95 91 101 92 94 94	95 115 91 128 106 109 94
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4/4 4/5 4/6 4/7 4/8 4/9 4/10 4/11 4/12 4/13	86 90 106 88 128 106 88 90 88	96 95 115 83 91 99 90 93 91 123	143 92 97 91 92 91 94 92 87 91	91 87 99 91 90 92 109 94 88 87	98 84 109 90 105 102 89 92 88 85	138 91 95 91 101 92 94 94 87 93	95 115 91 128 106 109 94 91 123
4/4 4/5 4/6 4/7 4/8 4/9 4/10 4/11 4/12	86 90 106 88 128 106 88 90 88	96 95 115 83 91 99 90 93 91 123 89	143 92 97 91 92 91 94 92 87 91 95	91 87 99 91 90 92 109 94 88 87 88	98 84 109 90 105 102 89 92 88 85	138 91 95 91 101 92 94 94 87	95 115 91 128 106 109 94 91

	N/B 101- Cactus	W/B 101- Hayden	S/B 101- Raintree	E/B 101- Scottsdale	N/B 101- Shea	S/B 101- Shea	Top speed/ day/all cameras
4/17	84		96	 	1	A	4
4/18	87	108	+	A		87	108
4/19	91	92	102	91	96	90	
4/20	82	92	94	101	91	89	101
4/21	85	92	105	109	92	94	
4/22	92	93	94	100		98	100
4/23	86	91	93		to a contract of	91	102
4/24	81	92	92	90	98	85	98 62 Days
4/25	83	87	97	89	88	- 1.89	97
4/26	81	86	87	99	86	101	101
4/27	85	89	101	101	92	95	101
4/28	81	73	95	88	104	83	104
4/29	84	107	97	107	90	97	107
4/30	97	87	108	104	86	98	108
5/1	82	119	92	90		93	119
5/2	83	91	87	89			
5/3	83	98	87	88		95	
5/4	86	90	89	115		95	
5/5	80	90	94	98		94	
5/6	93	93	100	90		95	
5/7	83	105	101	101	105	112	
5/8	116	94	89			100	
5/9	85	92	94	88		87	,
5/10	85	101	95	106		94	A CONTRACTOR OF THE PARTY OF TH
5/11	90	110	101	105	a contract of the contract of	101	110
5/12	91	96	97	99		89	
5/13	89	88	90	90		91	91
5/14	94	94	110	96		103	
5/15	90	86	99	94		99	
5/16	87	86	88	111		88	
5/17	84	96	86	85		89	
5/18	85	92			98	91	
5/19	81	83	95	87		90	
5/20	90		95	88		88	
5/21	98			128		147	
5/22	81	103		96		89	
5/23	84		93	107		 86	
5/24	83	i		89		84	
5/25	82	86	93	103		96	
5/26	83			92	103		
5/27	91	127	104	101	94	102	Charles and the property of the state of the
5/28	93	104	90	94		114	
5/29	91	97	121	88		99	
5/30	86		86	97		94	
5/31	87	95	90	104		92	
6/1	83			90		90	
6/2	85						
6/3	84	92	94	95		97	

	N/B 101- Cactus	W/B 101- Hayden	S/B 101- Raintree	E/B 101- Scottsdale	N/B 101- Shea	S/B 101- Shea	Top speed/ day/all cameras	
6/4	87	97	98	93	86	121	121	
6/5	85	83	100	98	91	88	100	
6/6	85	100	88	100	88	85	100	
6/7	. 84	86	103	86	93	86	103	
6/8	80	93	90	92	84	88	93	
6/9	80		88	95	93	93	95	
6/10	82	88	95	93	0	89	95	
6/11	87	118	94	102	. 0	94	118	
6/12	98	89	102	90	85	87	102	•
6/13	78	87	102		82	94		
6/14	80	83	91	89	88	83		
6/15	82	85	98			98	98	
6/16	82	96	87	93	86	90	96	
6/17	84	102	93		93	91	102	
6/18	108	99	94		100	97	108	
6/19	84	96	93		93	98	98	
6/20	82	88	94		92	85	94	
6/21	83	85	91	91	89	86	91	
6/22	106	96	101	89	83	90	106	
6/23	81	113	121	92	 87		122	
6/24	85	96		1	90	86	96	
6/25	98	88	97	95	99	90		124 Days
6/26	103			84		91	103	
6/27	80	87	91	88	84	87	91	
6/28	82	97			85	94	97	
6/29	85		89	91	99	90	99	
6/30	84	89	102	93	90	91	102	
7/1	99	91	114	92	90	92	114	
7/2	94	91	95	105	85	89	105	
7/3	100	89	90	93	88	87	100	
7/4	84	90	102	93	101	98	102	
7/5	86	83	89	94	90	88	94	
7/6	87	82	89		81	90	92	
7/7	81			90	85	95	95	
7/8	85	86	89		91	95	95	
7/9	87	90	99	95	93	100	100	
7/10	80	98	104	101	91	102	104	
7/11	81	86	88	88	83	83	88	
7/12	81	91	89	105	83	89	105	
7/12	84	87		84	83 84	91	91	
7/13	91	83	90	92	91	93		<u>;</u>
7/15	90		·	88	89	90		l
7/15	90		90	95	88	112	112	
7/16	79	82	101	111	84	90	111	
7/17	82	86 86	94	97	104	86	104	
7/18			88	97 87	85	87	88	
1119	88	84	00	,				· ·
7/20	88	88	106	87	87	92	106	

	N/B 101- Cactus	W/B 101- Hayden	S/B 101- Raintree	E/B 101- Scottsdale	N/B 101-	S/B 101- Shea	Top speed/ day/all cameras	
7/22	87	89	93	0	84	94		
7/23	94	87	99	0	88	101	101	
7/24	99	94	85	87	87	89	.1.	
7/25	91		90			86	1	
7/26	83	80	91	89	86	89		155 Days
7/27	83			89				
7/28	83		89	88	90	87		echicoustacione disease de la company de la
7/29	84		89			88	+	
7/30	90	·	93	116	87	88		
7/31	80	85	111		90		e .	
8/1	81	85		4	87	105		
8/2	84	f = 100 to 100 t			102	89		
8/3	89	de a	90		89			and the second second
8/4	99		i		88			
8/5	95	98		92	89	100		
8/6	94	89	92	105	104	91	105	
8/7	91	89			91	87	98	
8/8	82	82	97	96		91		
8/9	86	93	89		100			
8/10	81	83	90	105	84	87	105	
8/11	83	87	100	96	84			
8/12	85	108	89	92		97		
8/13	87	89	108	93		106		
8/14	89	110		91	90	84		
8/15	86	88		95	92	83		a contract of the contract of
B/16	81	89	93	87	90			
8/17	91	84	96	88	89	103		
8/18	91	99	97	88		96		
8/19	87	85	103	98		88		
8/20	94	97	96	90	95	90		
8/21	84	97 86	86	90	. 86	94		
8/22	80	93	94	111	86	84		
8/23	89		97	93	88	86		
8/24	82		94	95 95				
8/25	92		I consider the second	90		84		
8/26	93	89	99	88	87	90) 186 Days
8/27		97						
8/28	80		86	113	82	84	ومناوي أباء وروي والمراجع	b. r. ed. f.m.u /6. eledeledeledelede de
8/29	82		92	85	84	93		and the second s
8/30	89	103	102		82			
8/31	86	89	102	95	82 84			A CONTRACTOR OF THE CONTRACTOR
9/1	90	90	96	87	87	91	96	
9/2	87	90	91	87	88			
9/3	96		93	88				
9/4	86		93	90	95 89			
9/5	124		88	 89	123			
9/6	84		to a many and the contract		83			
9/7	91	90						A Company of the Comp

		N/B 101- Cactus	W/B 101- Hayden	S/B 101- Raintree	E/B 101- Scottsdale	N/B 101- Shea	S/B 101- Shea	Top speed/ day/all cameras	
9/8	8	92					84		
9/	_	87	87					99	
9/1		90	97						
9/1		92	83			85	97	102	•
9/1		82	i i				88		•
9/1		86			87				•
9/1		82		94	87	97	88		
9/1		80		90	89	86			
9/1		95	96					100	
9/1		101	94					- 4 .	
9/1		82				4 · · · · · · · · · · · · · · · · · · ·			
9/1		-						0	
9/2		!	· · · · · · · · · · · · · · · · · · ·	<u> </u>				0	
9/2		i		·		:		0	
9/2				 				0	
9/2		- 				‡		0	
9/2								0	:
9/2							•	0	
9/2		ı		1	I	I		0	217 Days
9/2		10 THE R. P. LEWIS CO., LANSING STREET, 1881		August States	August Market	eng di persa		Ō	
9/2	100000000 - 1 JEST - 1947 #8					T.		0	
9/2		+					•	. 0	
9/3					i	 		. 0	
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Loop 101 Photo Enforcement City Council Update

October 3, 2006

Goal of Program

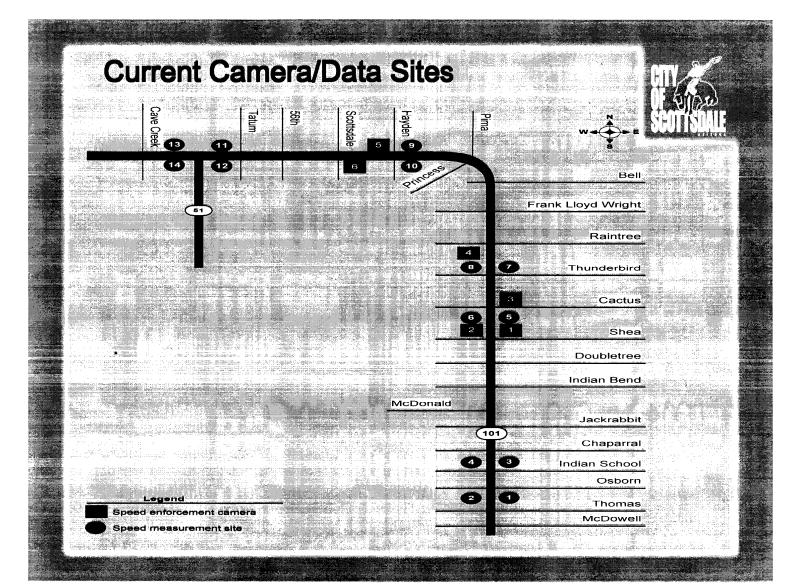


- Goal is to test whether the use of fixed, bi-directional photo enforcement technology on this segment of the urban freeway system will provide a tool to aid in reducing speeds and crashes
- City of Scottsdale demonstration program only, meant to supplement enforcement already provided by DPS
- Nine-month demonstration began on January 22, 2006 with 30-day warning notice period. Issuance of actual citations began on February 22, 2006. Demonstration program ends October 23, 2006. Technical Evaluation Committee includes ADOT, DPS, FHWA, MAG, AAA of Arizona, Insurance Institute for Highway Safety, County Attorney and Courts, and various city departments.

Demonstration Program Schedule



- 10/25/05: Council approval received
- 10/26/05: ROW Use Permit submitted, began collecting "before" data, initiated Technical Evaluation Committee, initiated equipment installation
- 11/15/05: 45-day awareness campaign began
- 1/22/06: 30-day warning notice period began
- 2/22/06: Enforcement period began
- Continual: Periodic review, meetings of Technical Evaluation Committee throughout program
- 10/23/06: Enforcement period concludes
- 1/16/07(tentative): Final Technical Evaluation Report to Council



Evaluation Objectives



- Safety impacts: impact on frequency and severity of reported crashes
- Operational Impacts (inside and outside demonstration project):
 - impact on speeding behavior
 - impact on congestion and flow characteristics
- Public acceptance of project
- Fiscal impacts

Evaluation Timeline (Assumes Data Available)



- Oct. 1st, 2006: ADOT contract with ASU to conduct evaluation
- Nov. 15th, 2006: ASU team to obtain complete electronic crash records for all 101 crashes from 1/1/2006 to 10/30/2006
- Jan 1st, 2007: ASU to deliver summary analysis results of speeding and crash impacts to Technical Evaluation Committee
- Jan 16th, 2007: ASU to present report to City Council
- Winter/Spring 2007: ASU team to address remaining analysis concerns/questions

Financial Status

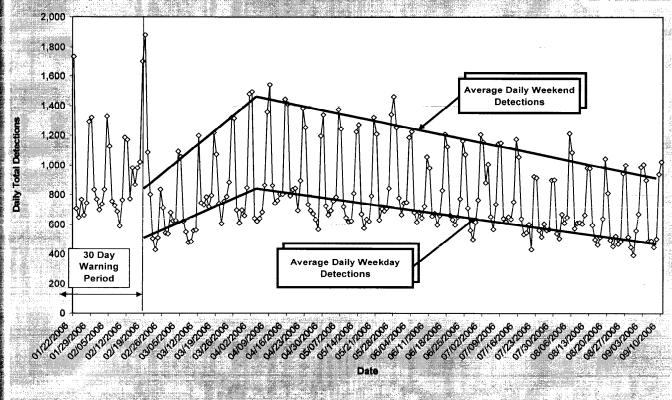


- Program intended to be revenue neutral
- Revenue returned to the General Fund as of Aug. 31, 2006, totaled about \$1.9 million, approximately \$600,000 more than expenses; does not reflect all expenses including staff time not charged, evaluation, any outstanding invoices
- City receives 47.4% of all fine revenue; balance goes to State and mandated court surcharge (total to date is \$1.4 million)
- Financial Services will do complete financial evaluation within 90 days from end of demonstration period

Number of Daily Detections is Decreasing

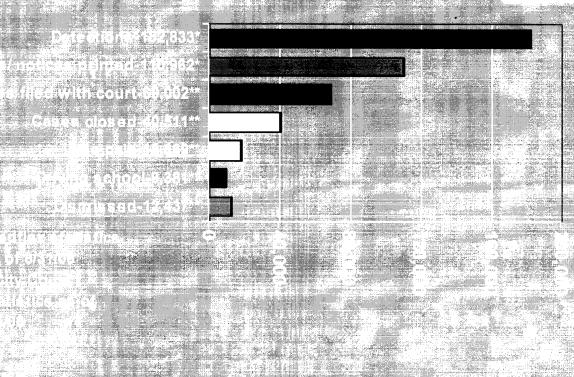


LOOP 101 DAILY TOTAL DETECTIONS



Status of Loop 101 cases in early Sept.





Summary



- Loop 101 demonstration program a response to citizen concerns about speed/safety
- Demonstration program to end October 23, 2006; equipment will remain in place for 90 days, with cameras "bagged"
- Public open house will take place after October 23rd along with public opinion poll
- Independent ASU researcher will complete technical evaluation in January 2007
- Financial Services staff will analyze revenues/costs of program

Recommendation to Council



- Staff recommends Council authorize an extension of the existing right-of-way use permit with the Arizona Department of Transportation (ADOT) through January 23, 2007, to allow for use of the program's in-pavement sensors to collect postdemonstration program speed data.
- Staff seeks any additional guidance or questions from Council prior to final report.